

A RESOLUTION

BY CITY UTILITIES COMMITTEE

01- *R* -1429

A RESOLUTION AUTHORIZING THE MAYOR OR HIS DESIGNEE TO APPROVE A NOTICE TO PROCEED WITH JORDAN, JONES AND GOULDING, INC./ENGINEERING DESIGN TECHNOLOGIES, INC., - JV FOR FC-6710-96D, ANNUAL CONTRACT FOR ARCHITECTURAL AND ENGINEERING SERVICES TO PROVIDE ADDITIONAL ARCHITECTURAL AND ENGINEERING DESIGN SERVICES FOR THE NANCY CREEK DEEP TUNNEL AND PUMPING STATION ON BEHALF OF THE DEPARTMENT OF PUBLIC WORKS IN AN AMOUNT NOT TO EXCEED TWO MILLION SIX HUNDRED FIFTY-SIX THOUSAND THREE HUNDRED FIFTY-EIGHT DOLLARS (\$2,656,358.00); ALL CONTRACTED WORK SHALL BE CHARGED TO AND PAID FROM FUND, ACCOUNT AND CENTER NUMBER: 2J26 524001 M24102429999.

WHEREAS, the City of Atlanta did enter into FC-6710-96D, Annual Contract for Architectural and Engineering Services; and

WHEREAS, the Department of Public Works does require additional architectural and engineering design services for the Nancy Creek Deep Tunnel and Pumping Station; and

WHEREAS, the Commissioner of the Department of Public Works and the Purchasing Agent have recommended that Jordan, Jones and Goulding, Inc./Engineering Design Technologies, Inc., JV, to additional engineering design services for Nancy Creek Deep Tunnel and Pumping Station; and

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ATLANTA, GEORGIA, that the Mayor be and is hereby authorized to approved Notice To Proceed with Jordan, Jones, and Goulding/Engineering Design Technologies, Inc., JV for FC-6710-96D, Annual Contract for Architectural and Engineering Services in an amount not to exceed Two Million Six Hundred Fifty-six Thousand Three Hundred Fifty-eight Dollars (\$2,656,358.00); and

BE IT FURTHER RESOLVED, that the Purchasing Agent be and is hereby directed to prepare an appropriate contractual agreement for execution by the Mayor, to be approved by the City Attorney as to form.

BE IT FURTHER RESOLVED, that this Notice to Proceed should not become binding on the City, and the City shall incur no liability upon same until such contract has been executed by the Mayor and delivered to the contracting party.

BE IT FINALLY RESOLVED, that all services for said Notice to Proceed shall be charged to and paid from fund, account and center number: 2J26 524001 M24102429999.

KOB (8/27/01)



CITY OF ATLANTA
BUREAU OF PURCHASING

BILL CAMPBELL
MAYOR

CITY OF ATLANTA
68 MITCHELL ST, SW, ATLANTA, GEORGIA 30335-0324
SUITE 4700, CITY HALL - SOUTH
(404) 330-6240
FAX (404) 658-7552
email: publicworks@atlanta.org

2001 MAY 24 13:11:15
DEPARTMENT OF PUBLIC WORKS
Norman A. Koplon, P.E.
Interim Commissioner
David Peters, P.E.
Deputy Commissioner

URGENT

Atlanta, May 1, 2001

Felicia Strong-Whitaker, Director
Bureau of Purchasing and Real Estate
68 Mitchell Street
Atlanta, Georgia 30303

**Re: FC-6710-96-D ANNUAL CONTRACT FOR
ARCHITECTURAL AND ENGINEERING SERVICES,
ANNUAL A&E CONTRACT, JORDAN, JONES, GOULDING, Inc./
ENGINEERING DESIGN TECHNOLOGIES, Inc. - JV**

**DESIGN OF THE NANCY CREEK DEEP TUNNEL AND PUMPING
STATION.**

Dear Ms. Whitaker:

The Department of Public Works is requesting your assistance to prepare legislation to authorize an amendment to the above referenced contract of JJG/EDT for the following reasons:

The original length of the tunnel was increased from 21,000 feet (from the intersection of Broadland and Northside to the RMClayton plant) to 42,000 feet (from the boundary of deKalb County at Evergreen Drive to the RMClayton plant). The reason for the increase in length is that both deKalb and Fulton County wish to participate in this project in order to ensure future growth of their communities.
Associated additional cost \$ 208,704

It was decided to let JJG/EDT complete the final design of the tunnel rather than the partial design that was envisioned in the original contract. The reason was that the cost to the City will be lower and the design will be finished earlier. Concurrent with this it was decided to use the design-bid-build method for this part of the project rather than the design-build method originally envisioned.
Associated additional cost \$ 422,642

Felicia Strong-Whitaker, Director
May 1, 2001
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Brown and Caldwell and Western Summit will remain the design-build contractor for the pump station at the RMClayton treatment plant. Excluded from this could be the shaft construction which may require the services of a specialty contractor.
No additional cost due to this item.

The work of the subcontractors of JJG/EDT will increase due to the increase in length of the tunnel.

Associated additional cost	\$ 479,692
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It was decided to add the services of Smith Realty as subcontractor to JJG/EDT.	
Associated additional cost	\$ 1,500,000

Contingencies	\$ 88,962
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Total additional cost for the contract amendment	<u>\$ 2,700,000</u>
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Part of the design and construction costs will be borne by deKalb and Fulton Counties.

Thank you for your assistance in this matter.

Sincerely,



David W. Peters, P.E.
Deputy Commissioner
Department of PublicWorks

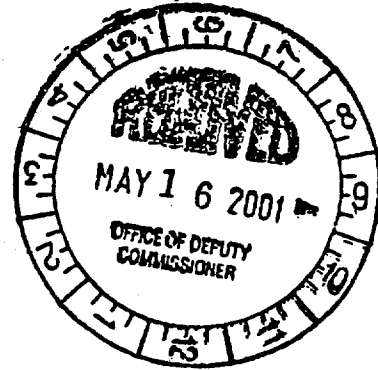
Attachment: Scope and Budget Amendment, JJG/EDT

DWP:HB:hb

xc: Norman Koplon, P.E.
John W. Griffin, Jr.
Garney Ingram-Reid
Heinz Brodheim, P.E.
Vivian Chapman
Keith Brooks, BPRE

**JORDAN
JONES &
GOULDING**

6801 Governors Lake Parkway
Building 200
Norcross, Georgia 30071
T 770.455.8555
F 770.455.7391
www.jjg.com



April 30, 2001

Mr. Heinz Brodheim, P.E.
Project Manager
City of Atlanta
Department of Public Works
City Hall South
68 Mitchell Street, S.W.
Atlanta, Georgia 30335-0325

**RE: Nancy Creek Tunnel and Pump Station- FC-6710-96D
Scope & Budget Amendment**

Dear Heinz,

In accordance with the decisions made by City of Atlanta during our meeting on April 24, 2001 enclosed is the proposed revised cost proposal to complete the tunnel design to enable the City to bid the Nancy Creek Tunnel as a traditional design-bid-build project.

The decisions made by the City are as follows:

- The Nancy Creek Pump Station will be a Design/Build Project.
- The Nancy Creek Tunnel will be a traditional Design/Bid/Build Project requiring JJG/EDT to prepare detail design.
- The Nancy Creek Pump Station will be a submersible type.
- The final design and construction of the Nancy Creek Pump Station will be by the team of Western Summit and Brown & Caldwell.
- JJG/EDT will meet with Mr. Dorsey Walker of Georgia Power while doing the preliminary design of the full generator backup to the pump station.
- The tunnel contractor will construct the Pump Station Shaft.
- The two documents, tunnel and the pump station, will be completed by July 30, 2001.

Mr. Heinz Brodheim

April 30, 2001

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- The tunnel diameter will be uniform through its full length.
- JJG/EDT will simultaneously investigate two alignments from GA 400 to Evergreen Drive; one through Fulton County and another bypassing Fulton County.
- Mr. John Griffin will consult with the Purchasing Dept. to advise JJG/EDT whether to proceed with pre-qualification of tunnel contractors, and procedures to follow if the decision is to go ahead. Any prequalification process will be complete by June 1, 2001 to be followed up with project advertising by 8/1/2001 and bid opening on September 15, 2001.
- JJG/EDT will prepare an Environmental Information Document for the tunnel project.
- JJG/EDT will participate with the City (Marilyn Johnson) in a student program with selected high school and Georgia Tech students.
- JJG/EDT will set, prepare, participate in Work Sessions for Pump Station Operation, Easement Acquisition, and Prequalification Procedures.
- JJG/EDT price proposal will include \$ 1,500,000 for Smith Realty as a subcontractor for easement acquisition services as directed by the City.

The decision to complete the tunnel design will require an estimated fifty additional drawings. The drawing list is enclosed for reference. The proposed additional costs are summarized in three segments as follows:

- The additional costs incurred due to numerous scope changes to date. The summary of these changes is also included for ease of reference.
- Additional cost required to complete the final tunnel design.
- Subconsultants & Other Direct Costs (ODC's) which include a 5 % markup allowed under the agreement with City of Atlanta.

Mr. Heinz Brodheim

April 30, 2001

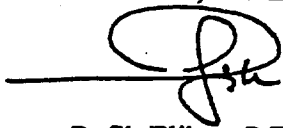
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Description	\$ - Amount
Additional work due to scope changes to date (Table I)	\$ 208,704
Additional work for final tunnel design (Breakdown attached)	\$ 422,642
Subconsultants & ODCs (Table II)	\$ 2,025,012
TOTAL	\$ 2,656,358

Please call me for any questions you may have for an immediate response to your query.

Very truly yours,

JORDAN, JONES & GOULDING, INC.



Refik Elibay, P.E.
Project Manager

cc: Norman A. Koplon, P.E., Acting Commissioner of DPW
David W. Peters, P.E., Deputy Commissioner of DPW
John Griffin, P.E., Deputy Commissioner of DPW
Dan Guill
J. Panter
L. Tucker
W. Klecan
J. Raymer
M. Robison
File 2061.712/B.1.1

TABLE I

NANCY CREEK TUNNEL AND PUMP STATION (FC-6710-96D)

<u>SCOPE CHANGES TODAY (4/23/2001)</u>	<u>IMPACTS DUE TO THE SCOPE CHANGES:</u>
(A) 21,000 feet long tunnel alignment changed from Moores Mill Rd. with 2 diversions (Shadowlawn + Northside Dr.) to pickup Shadowlawn at Nancy Creek with 2 diversions to eliminate a siphon, at Nancy Creek and a diversion at Chastain Park with a 31,000 ft. long tunnel.	(1) Easements already identified for acquisition were abandoned
(B) The tunnel alignment could not be fixed because shaft location at Chastain Park changed 4 times before this site was eliminated completely.	(2) Alignment surveys started abandoned in favor of revised alignment.
(C) The tunnel alignment was extended to 31,000 feet to GA 400 to divert Stratford Trunk to the tunnel with 2 intakes to eliminate another existing siphon and also divert the Veterans Trunk to the tunnel with another intake.	(3) Aerial photographs from City were not available requiring flying by JG/EDT
(D) The tunnel was further extended into DeKalb County for a total of 42,000 ft.	(4) Aerials were flown in 3 separate flights due to realignment and extensions to the tunnel length.
(E) The initially assumed tunnel 10 ft. diameter is being increased to 15'-7" (This is pending completion of hydraulic analysis & City approval)	(5) Original 3 surface diversion sites increased to 6 sites requiring ground surveys.
(F) Hydraulic information was not available from City as initially assumed	(6) Chastain Park diversion site changed 4 times each requiring ground survey before Chastain Park was abandoned.
(G) Two different tunnel alignments from GA 400 to Evergreen Drive are being evaluated with additional geotechnical investigation and route surveys.	(7) Number of Bore Holes required to be relocation resulting in new layouts, lane closure permits, and utility searches.
(H) City requested performance of additional geotechnical investigation to increase the data set for better understanding of the prevailing geologic conditions along the tunnel alignment.	(8) Previously surveyed boreholes were resurveyed as revised.
(I) Initial scope was based on producing one set of construction documents. The scope was changed to producing 3 sets of documents: One for D/B Pump Station, another for a shaft contractor to construct the shafts in advance of the tunnel construction, and finally the tunnel construction.	(9) The realigned and extended tunnels required additional geotechnical surface mapping in choosing the revised borehole locations
(J) Initial scope did not include close coordination with City's Program Manager.	(10) The hydraulic information for developing the design criteria for determining equalization volumes and pump station capacity had to be researched and developed by JG/EDT.
(K) Produce a final design for the tunnel and shaft construction.	(11) R&D Testing and Drilling subcontract will be revised for the additional work which will permit drilling of upto 3 vertical & 5 inclined borings.
	(12) At 80% completion stage constructing the shafts in advance of tunnel construction was abandoned. Final decision is to produce a D/B document for the Pump Station and a traditional set of construction documents for the tunnel construction with final design completed.
	(13) Numerous work sessions were scheduled to evaluate many options to compress construction schedules for various techniques. Options included 1 TBM, 2 TBMs, and 3 TBMs with and without shaft construction done in advance. All options also included preparation of cost estimates.

Mr. Heinz Brodheim

April 30, 2001

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TABLE II

SUBCONSULTANT & ODC DISTRIBUTION

NAME / DESCRIPTION	ROLE / SCOPE	\$ - AMOUNT
R&D Testing & Drilling, Inc.	Drill 3 additional vertical & 5 inclined borings	\$ 283,321
REVEY Associates	Independent blasting assessment at shaft sites	\$ 10,000
Ron Heuer, PhD, P.E. and Greg Korbin, PhD	Independent Technical Advisory Board Members	\$ 22,000
Tom Crawford, P.G.	Independent Professional Geologist	\$ 5,000
Additional Geotech. Lab Tests		\$ 20,100
Gerald Dollinger, PhD	TBM Boreability Analysis	\$ 10,000
Intake Hydraulic Modeling		\$ 3,000
Sewer Locating Services		\$ 20,000
Paving/Landscaping/Restoration	Restoring disturbed sites	\$ 12,000
Smith Realty	Easement Acquisition	\$1,500,000
Subconsultant Subtotal		\$1,885,421
Subtotal with 5% Markup		\$1,979,692
ODCs	Supplies/Cad/Milage/Printing	\$ 45,320
TOTAL		\$2,025,012

TRANSMITTAL FORM FOR LEGISLATION

TO: MAYOR'S OFFICE

ATTN: GREG PRIGDEON

Commissioner's Signature

Director's Signature

Originating Department: Public Works

Contact Person: Keith Brooks X 6382

Committee(s) of Jurview: City Utilities

Council Deadline: August 31, 2001

Committee Meeting Date(s): September 11-12, 2001

Full Council Date: September 17, 2001

CAPTION

A RESOLUTION AUTHORIZING THE MAYOR OR HIS DESIGNEE TO APPROVE A NOTICE TO PROCEED WITH JORDAN, JONES AND GOULDING, INC./ENGINEERING DESIGN TECHNOLOGIES, INC., - JV FOR FC-6710-96D, ANNUAL CONTRACT FOR ARCHITECTURAL AND ENGINEERING SERVICES TO PROVIDE ADDITIONAL ARCHITECTURAL AND ENGINEERING DESIGN SERVICES FOR THE NANCY CREEK DEEP TUNNEL AND PUMPING STATION ON BEHALF OF THE DEPARTMENT OF PUBLIC WORKS IN AN AMOUNT NOT TO EXCEED TWO MILLION SIX HUNDRED FIFTY-SIX THOUSAND THREE HUNDRED FIFTY-EIGHT DOLLARS (\$2,656,358.00); ALL CONTRACTED WORK SHALL BE CHARGED TO AND PAID FROM FUND, ACCOUNT AND CENTER NUMBER: 2J26 524001 M24102429999.

BACKGROUND

TO PROVIDE ADDITIONAL ENGINEERING DESIGN SERVICES FOR THE NANCY CREEK DEEP TUNNEL AND PUMPING STATION.

FINANCIAL IMPACT (if any) \$ 2,656,358.00

Mayor's Staff Only

Received by Mayor's Office:

8/29/01
(date)

Reviewed by:

gs
(initials) (date)

Submitted to Council:

(date)

Action by Committee:

☐ Approved ☐ Adversed ☐ Held ☐ Amended
☐ Substitute ☐ Referred ☐ Other